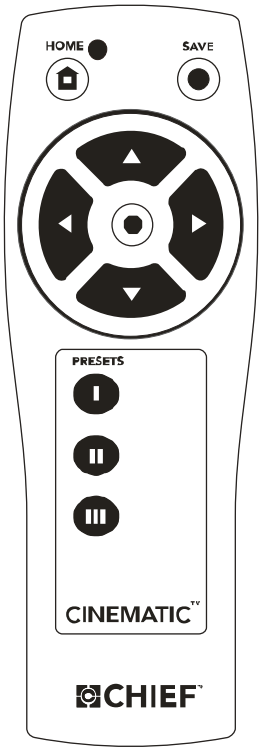
INSTALLATION INSTRUCTIONS



Infrared Remote Control Accessory

CHIEF®
Our Mounts. **Your Vision.**

IR10

DISCLAIMER

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IMPORTANT WARNINGS AND CAUTIONS!

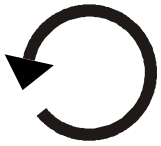
WARNING: A WARNING alerts you to the possibility of serious injury or death if you do not follow the instructions.

CAUTION: A CAUTION alerts you to the possibility of damage or destruction of equipment if you do not follow the corresponding instructions.

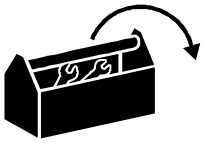
WARNING: Failure to read, thoroughly understand, and follow all instructions can result in serious personal injury, damage to equipment, or voiding of factory warranty! It is the installer's responsibility to make sure all components are properly assembled and installed using the instructions provided.

LEGEND

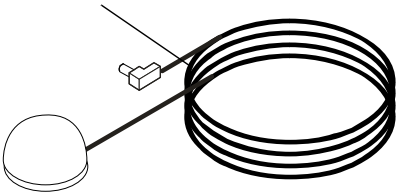
	Tighten Fastener
	Apretar elemento de fijación
	Befestigungsteil festziehen
	Apertar fixador
	Serrare il fissaggio
	Bevestiging vastdraaien
	Serrez les fixations
	Сожмите Застежку

	Loosen Fastener
	Aflojar elemento de fijación
	Befestigungsteil lösen
	Desapertar fixador
	Allentare il fissaggio
	Bevestiging losdraaien
	Desserrez les fixations
	Ослабьте Застежку

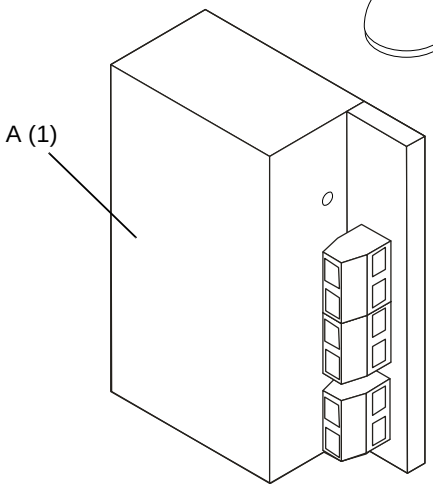
TOOLS REQUIRED FOR INSTALLATION AND PARTS



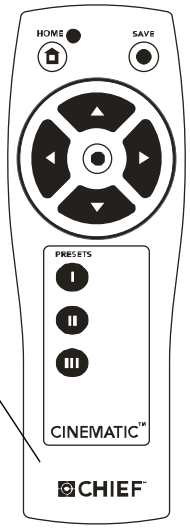
1/8"



B (1)



A (1)



C (1)

INSTALLATION

WARNING: IMPROPER INSTALLATION CAN LEAD TO MOUNT FALLING CAUSING SERIOUS PERSONAL INJURY OR DAMAGE TO EQUIPMENT! All wiring should be performed by a properly trained and licensed electrician following all local ordinances.

NOTE: This device can provide control of any device set up for momentary dry contact inputs. See **Dry Contact Closures** section.

Locate and Install IR Receiver

The IR receiver consists of two parts. The IR to dry control accessory (A) and the IR Receiver (B).

To install the IR Receiver:

1. Determine a location to place the IR to Dry Control accessory (A) box taking into consideration the desired location of the IR Receiver (B), as well as access to the box to connect control wiring after installation.
2. Connect IR Receiver (B) to the IR to Dry Control accessory (A).
3. Route IR receiver (B) to desired mounting location and secure.

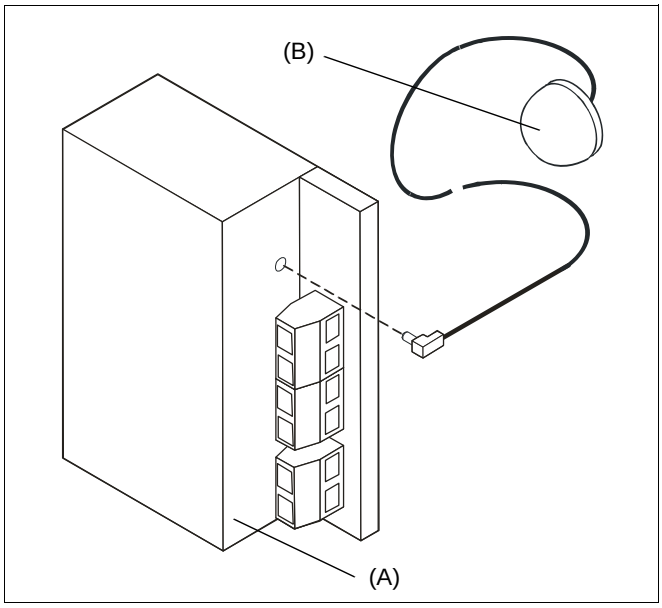


Figure 1

NOTE: The IR10 can use 12V through 24V power that can be obtained directly from the control boards within some Chief automated products.

Table 1-1: Chief Product Connections to IR-10

IR-10	SL-150 Internal	SL-150 External	SL-236 Internal	SL-236 External	PCL	PUL
+12V	4 (12V DC)	10 (12V DC)	4 (12V DC)	10 (12V DC)	4 (12V DC)	4 (12V DC)
GND	3 (ground)	9 (ground)	3 (ground)	9 (ground)	3 (ground)	3 (ground)
C1	12 (retract)	3 (retract)	12 (retract)	3 (retract)	12 (retract)	11 (extend)
C2	11 (extend)	4 (extend)	11 (extend)	4 (extend)	11 (extend)	12 (retract)
C3	No Connection	No Connection	9 (service)	11 (service)	No Connection	No Connection
COMM	13 (ground)	9 (ground)	13 (ground)	9 (ground)	13 (ground)	13 (ground)

NOTE: If remote does not operate properly see the installation instructions provided with mount, or contact a Chief Customer Service Representative.

4. Using a slotted screwdriver, connect power and signal wires to the IR to Dry Control accessory (A). (See Figure 2)

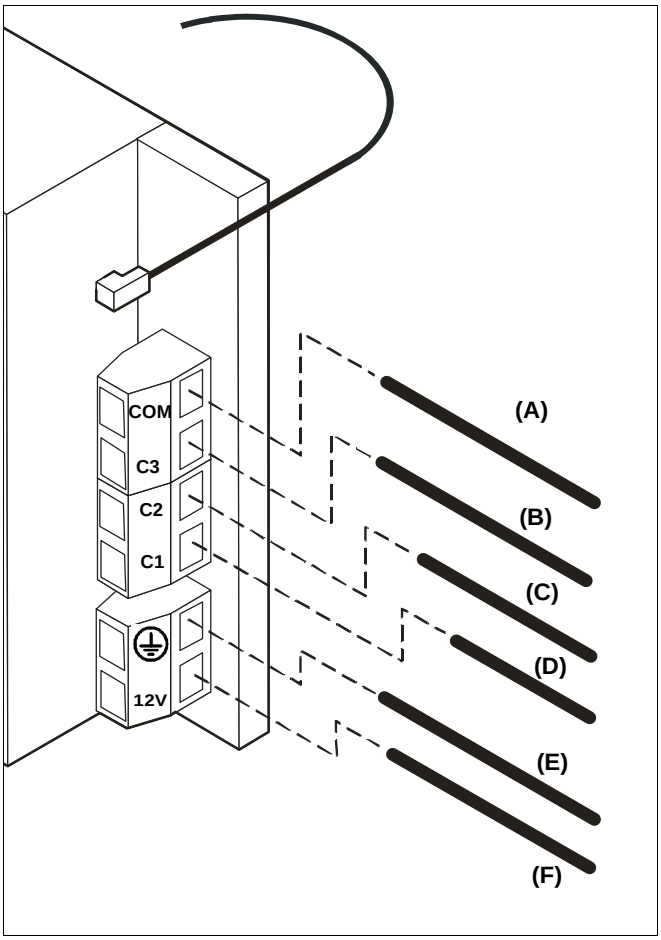


Figure 2

KEY	CONTROL OUTPUT
A	COMMON
B	PRESET 1
C	DOWN
D	UP
E	GROUND
F	12V or 24V Power supply

The remote control has a range of 20-30ft (6-9m), and is powered by 2 AAA batteries that are accessed from the back of the remote.

The following table and illustration identify mount functionality and response by button on the remote control(s).

IMPORTANT ! : Power must be provided to device and IR receiver must be installed in order to access extended IR10 programming options.

Normal Operating Mode

KEY	FUNCTION	REQUIRED ACTION
1	NOT USED	N/A
2	NOT USED	N/A
3	CLOSE CONTACT #1	PRESS AND HOLD
4	NOT USED	N/A
5	NOT USED	N/A
6	NOT USED	N/A
7	CLOSE CONTACT #2	PRESS AND HOLD
8	CLOSE CONTACT #3	PRESS AND HOLD
9	NOT USED	N/A
10	NOT USED	N/A

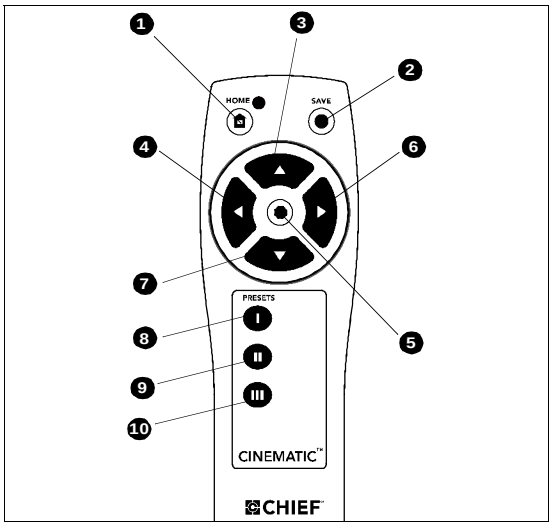


Figure 3

Changing System Codes

Settings are changed by a combination of remote button presses and partially disassembling the box to change specific jumper settings.

NOTE: For changing what the box expects to receive, you need to remove the housing and remove a jumper (J5).

1. Remove four Phillips screws from housing and remove housing cover. (See Figure 4)
2. Remove jumper. (See Figure 4)
3. Replace housing cover and four screws removed in Step 1.

NOTE: This will switch the IR-10 over to the 82 system code. The remote control will also need to be switched over. (See Table 1-2)

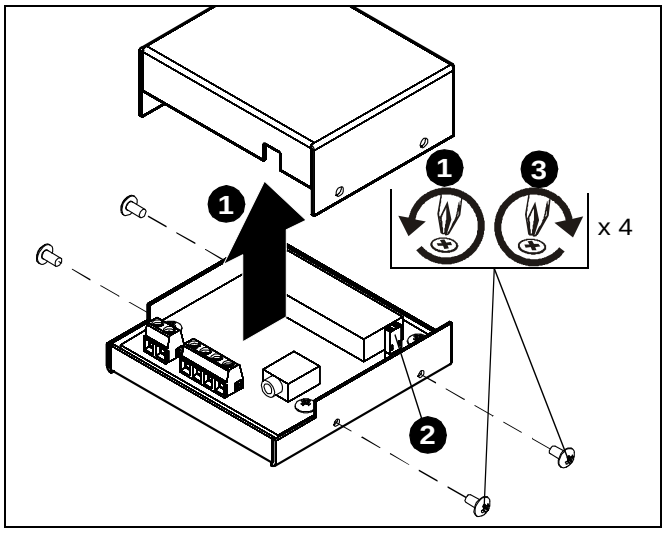


Figure 4

Changing System Code for the Remote

1. Press and Release Key 3 + 7 (Enter Setup Mode)
2. Press and Release Key 8
3. Press and Release Key 9
4. Press and Release Key 10 - LED Blinks Twice <Quick>
5. Select System Code - See Table Below
6. Press and Release Key 2 - LED Blinks 4 times <Quick> (Exit Setup Mode)

Table 1-2: Remote Control System Code

System Code	Press + Release
6E (Default)	8
82	8,8

OPERATIONS

Dry Contact Closures

The IR-10 provides dry contacts based on IR input.

Example: Pressing the 'UP' button on the remote will cause a connection to be made between COM and C1. This connection can be used to trigger other devices (SL, Cinematic, or any third party device that required this type of input).

NEC Protocol

The modulated carrier is usually derived from 455kHz and is 1/12 of the frequency with 1/3 duty cycle.

When data are transmitted repeatedly, the frame cycle is 107.9ms or 186 period.

A frame consists of a syn pulse, an eight-bit custom code, an eight-bit inverted custom code, an eight-bit data code and an eight-bit inverted data code.

IR-10 Programming

IR-10 Control Features:

- Carrier Frequency: 38KHz
- Protocol: NEC - Full Repeat
- System Code(s): 6E (Default) - Multiple Codes Selected via Key-Press (see Figure 3 and Table 1-2)

Table 1-3: IR Command Code

Key Number	Key Name	Hex Code
1	HOME	02
2	SAVE	1A
3	UP	07
4	LEFT	09
5	STOP	0A
6	RIGHT	0B
7	DOWN	0D
8	PRESET 1	12
9	PRESET 2	13
10	PRESET 3	14

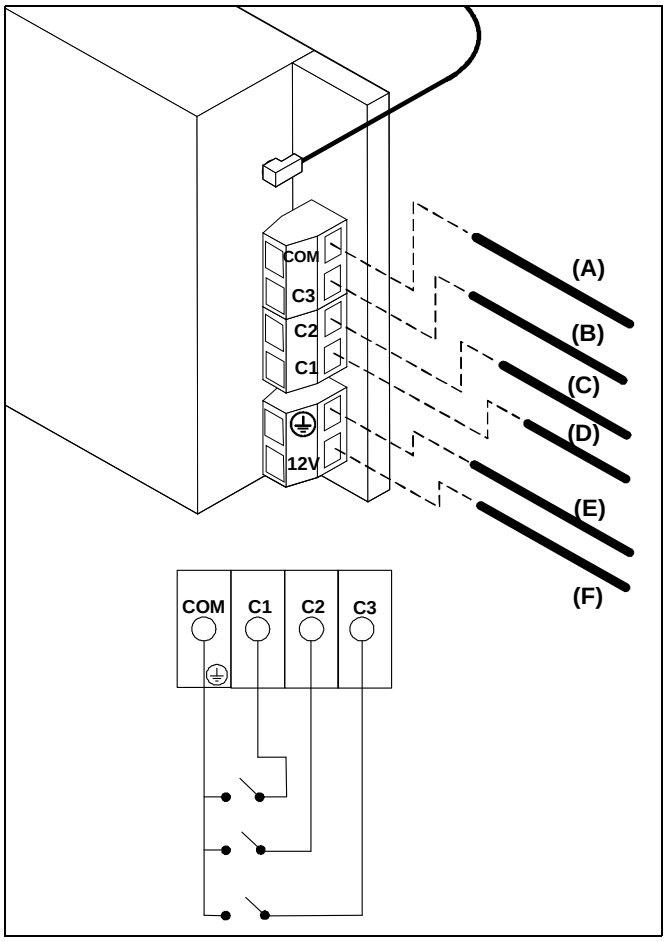


Figure 5

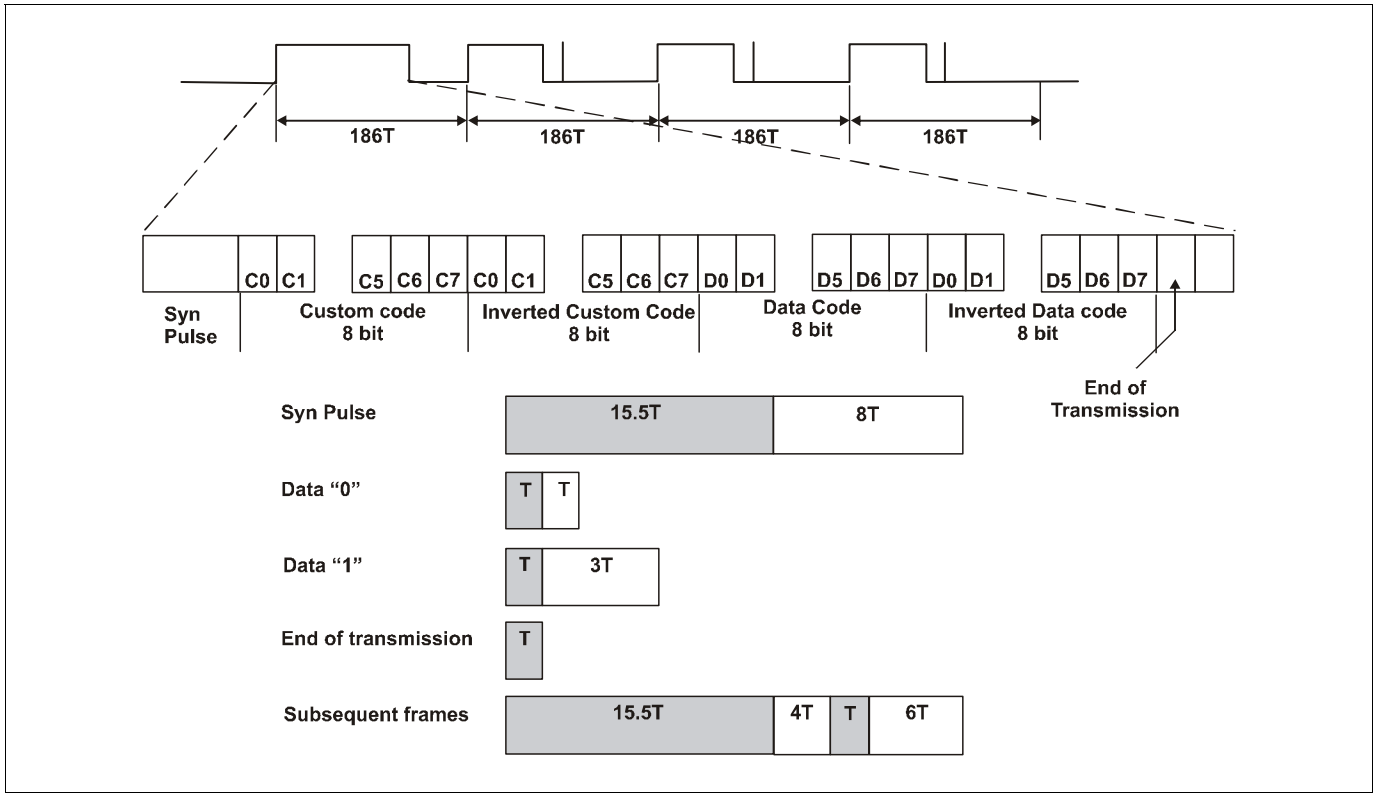

186T
186T
186T
186T
C0 C1
C5 C6 C7 C0 C1
C5 C6 C7 D0 D1
D5 D6 D7 D0 D1
D5 D6 D7
Syn Pulse
Custom code 8 bit
Inverted Custom Code 8 bit
Data Code 8 bit
Inverted Data code 8 bit
End of Transmission
Syn Pulse
15.5T
8T
Data "0"
T
T
Data "1"
T
3T
End of transmission
T
Subsequent frames
15.5T
4T
T
6T

Figure 6

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07/08

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